### North Aleutian Basin Play 1: Bear Lake-Stepovak (Oligocene-Miocene)

## **Geological Assessment**

GRASP UAI: AAAAA HAB
Play Area: 14,820 square miles
Play Water Depth Range: 15-300 feet
Play Depth Range: 2,000-10,000 feet
Play Exploration Chance: 0.1872

Play 1, Bear Lake-Stepovak (Oligocene-Miocene), North Aleutian Basin OCS Planning Area, 2006 Assessment, Undiscovered Technically-Recoverable Oil & Gas

Assessme	Assessment Results as of November 2005												
Resource Commodity	F	Resources	*										
(Units)	F95	Mean	F05										
BOE (Mmboe)	0	1,400	3,749										
Total Gas (Tcfg)	0.000	5.586	14.461										
Total Liquids (Mmbo)	0	406	1,176										
Free Gas** (Tcfg)	0.000	5.473	14.131										
Solution Gas (Tcfg)	0.000	0.113	0.330										
Oil (Mmbo)	0	271	828										
Condensate (Mmbc)	0	136	349										

<sup>\*</sup> Risked, Technically-Recoverable

 ${\it F05} = 5\%$  chance that resources will equal or exceed the given quantity

BOE = total hydrocarbon energy, expressed in barrels-of-oil-equivalent, where 1 barrel of oil = 5,620 cubic feet of natural gas

Mmb = millions of barrels
Tcf = trillions of cubic feet

Table 1

Play 1, the "Bear Lake-Stepovak" play, is the dominant play in the North Aleutian Basin OCS Planning Area, with 61% (1,400 Mmboe) of the Planning Area energy endowment (2,287 Mmboe). The overall assessment results for play 1 are shown in table 1. Oil and gas-condensate liquids form 29% of the hydrocarbon energy endowment of play 1. Table 5 reports the detailed assessment results by commodity for play 1.

Table 3 summarizes the volumetric input data developed for the *GRASP* computer model of North Aleutian basin play 1. Table 4 reports the risk model used for play 1. The location of play 1 is shown in figure 1.

The Bear Lake-Stepovak play sequence corresponds in the North Aleutian Shelf COST 1 well to the lower part of the Milky River Formation, all of the Bear Lake Formation, and the upper (sandy) part of the Stepovak Formation. The play sequence ranges in age from late Oligocene through early Pliocene. In onshore areas, rocks correlative to play 1 were penetrated by 9 wells (David River 1/1A, Hoodoo Lake 1, Hoodoo Lake 2, Sandy River 1, Port Heiden 1, Ugashik 1, Becharof Lake 1, Great Basins 1, and Great Basins 2 wells). Offshore, in eastern St. George basin, correlative rocks were penetrated by the St. George Basin COST 2, Monkshood 1, and Bertha 1 wells. The principal point of offshore control is the North Aleutian Shelf COST 1 stratigraphic information test well that was drilled by an industry consortium in 1983.

No pools of oil or gas were encountered in any wells penetrating the Bear Lake-Stepovak sequence in the North Aleutian basin. Minor gas shows are associated with coals in the Bear Lake-Stepovak sequence in the North Aleutian Shelf COST 1 well and in most wells onshore. In the Becharof Lake 1 well, cuttings headspace gas carbon isotopes (AOGCC, 1985) for the Bear Lake and Stepovak Formations range from -19.5 to -65.4 ( $\delta^{13}$ C [PDB]), indicating mixed thermogenic and biogenic gas. No shows of

<sup>\*\*</sup> Free Gas Includes Gas Cap and Non-Associated Gas F95 = 95% chance that resources will equal or exceed the given quantity

oil were noted within the Bear Lake-Stepovak play sequence in the North Aleutian Shelf COST 1 well. Oil shows were noted in the play sequence in the Becharof Lake 1, Sandy River 1, and David River 1/1A wells. Flow tests in the Bear Lake-Stepovak sequence in the Sandy River 1 well recovered gas-cut drilling mud and formation waters.

Most of the oil and gas resources of play 1 are associated with Oligocene- to Mioceneage sandstones in simple domes draped over basement uplifts. Mapped domes range up to 93,000 acres in closure areas. Thick (maximum = 277 ft), highly porous reservoir sandstones sum to 3,305 feet in the North Aleutian Shelf COST 1 well—comprising 61 percent of the 5,390 ft-thick Bear Lake-Stepovak play sequence. No oil source formation has been identified in the North Aleutian basin but coals and shales with Type III (coal-like) organic matter are abundant and could form sources for both biogenic and thermogenic gas, condensate, and perhaps minor oil. For this reason, play 1 is modeled as gas-prone. Oil shows were encountered in the interval from 15,300 to 16,800 feet (corresponds to 0.78% to 1.04% Ro) in the North Aleutian Shelf COST 1 well. Carbon isotopes on extracts from the show interval correlate to extracts and oils from Tertiary-age rocks in northern Cook Inlet as opposed to extracts and oils from known Mesozoic-age oil source rocks on the Alaska Peninsula and beneath Cook Inlet. These data suggest that Mesozoic oil source beds do not underlie North Aleutian basin in the area of play 1. This interpretation is supported by magnetic intensity data that suggest that play 1 is underlain by a substrate of Mesozoic volcano-plutonic rocks. The hypothesized petroleum system for play 1 assumes that gas and minor liquids migrate out of Tertiary rocks in the deep parts of North Aleutian basin and rise

along faults bounding basement uplifts to charge shallow reservoir beds draped over uplifts.

Three major risk factors for play 1 relate to:

1) seal (reservoir sequence is very sand-rich and is not capped by a regional seal);

2) source adequacy (no attractive source formation in known Tertiary-age rocks;

Mesozoic rocks beneath play 1 are pervasively invaded by plutons and cannot form a source for petroleum); and 3) petroleum migration to reservoirs (a major seal sequence—bentonitic shales of the lower Stepovak Formation—floors the reservoir sequence and is only sparsely pierced by faults).

Play 1, Bear Lake-Stepovak, North Aleutian Basin OCS Planning Area, 2006 Assessment, Conditional BOE Sizes of Ten Largest Pools

Assessme	nt Results as o	f November 2	005
Pool Rank	ВО	E Resourc	es *
1 ooi Rank	F95	Mean	F05
1	187	827	2495
2	106	378	816
3	65	245	542
4	41	174	382
5	26	130	290
6	17	99	227
7	12	78	184
8	9	63	153
9	7	53	129
10	6	44	110

<sup>\*</sup> Conditional, Technically-Recoverable, Millions of Barrels Energy-Equivalent (Mmboe), from "PSRK.out" file

BOE = total hydrocarbon energy, expressed in barrels-of-oilequivalent, where 1 barrel of oil = 5,620 cubic feet of natural gas

Table 2

A maximum of 34 hypothetical pools is forecast by the aggregation of the risk model and the prospect numbers model for play 1.

F95 = 95% chance that resources will equal or exceed the given quantity

F05 = 5% chance that resources will equal or exceed the given quantity

These 34 pools range in mean conditional (un-risked) recoverable volumes from 6 Mmboe (pool rank 34) to 827 Mmboe (pool rank 1). Pool rank 1 ranges in possible conditional recoverable volumes from 187 Mmboe (F95) to 2,495 Mmboe (F05), or in a gas case from 1.05 Tcfge (F95) to 14.02 Tcfge (F05). Table 2 shows the conditional sizes of the 10 largest pools in play 1.

In the computer simulation for play 1 a total of 73,007 "simulation pools" were sampled for size. These simulation pools can be grouped according to the USGS size class system in which sizes double with each successive class. Pool size class 12 contains the largest share (15,882, or 22%) of simulation pools (conditional, technically recoverable BOE resources) for play 1. Pool size class 12 ranges from 64 to 128 Mmboe. The largest simulation pool for play 1 falls within pool size class 19, which ranges in size from 8,192 to 16,384 Mmboe (or 46 to 92 Tcfge). Table 6 reports statistics for the simulation pools developed in the GRASP computer model for play 1.

# **GRASP** Play Data Form (Minerals Management Service-Alaska Regional Office)

<u>Basin</u>: North Aleutian Basin <u>Play Number</u>: 1

Play UAI Number: AAAAA HAB

Play Area: 14,820mi² (9.5 million acres)

Reservoir Thermal Maturity: 0.25%-0.48% Ro

<u>Assessor(s)</u>: K.W. Sherwood, D. Comer, J. Larson <u>Play Name</u>: Bear Lake-Stepovak (Oligocene-Miocene) Date: December 2004

Play Depth Range: 2,000-10,000 feet (mean = 6,000 ft)

Expected Oil Gravity: 35° API
Play Water Depth Range: 15-300 feet (mean = 250 ft)

#### POOLS Module (Volumes of Pools, Acre-Feet)

	,		,										
Fractile	F100	F95	F90	F75	F50	Mean/Std. Dev.	F25	F15	F10	F05	F02	F01	F00
Prospect Area (acres)-Model Input*	3227		4249		10661	13794/11325			26750				92660
Prospect Area (acres)-Model Output**	989	3408	4394	6710	10825	13560/10075	17299	22441	26058	33526	40000	44000	88280
Fill Fraction (Fraction of Area Filled)	0.17	0.28	0.3	0.34	0.4	0.41/0.10	0.48	0.51	0.53	0.6	0.65	0.69	1
Productive Area of Pool (acres)	247	1310	1706	2638	4299	5742/4972	7173	9421	11081	14063	17500	21000	51718
Pay Thickness (feet)	3	21	29	52	98	151/180***	184	258	324	340	375	400	550

<sup>\*</sup> model fit to prospect area data in BESTFIT

#### \*\*\* original fit to Cook Inlet data

#### MPRO Module (Numbers of Pools)

nput Play Level Chance	0.72
Output Play Level Chance*	0.7197

Prospect Level Chance 0.26

Exploration Chance 0.1872

\* First Occurrence of Non Zero Pools As Reported in PSUM Module

Risk Model	Play Chance	Petroleum System Factors	Prospect Chance
	0.8	Seal (no regional seal over reservoir sequence)	0.5
	0.9	Source (mainly Tertiary coals and Type III shales)	0.65
		Migration (regional shale seal between source & reservoir)	0.8

Fractile		F95	F90	F75	F50	Mean/Std. Dev.	F25	F15	F10	F05	F02	F01	F00
Numbers of Prospects in Play	24	28	30	32	38	39/7.95	43	46	49	52	56	60	80
Numbers of Pools in Play					8	7.30/5.40	11	13	14	15	17	19	34
		. ===											

Zero Pools at F72.00

Minimum Number of Pools 4 (F70) Mean Number of Pools 7.3 Maximum Number of Pools 34

#### POOLS/PSRK/PSUM Modules (Play Resources)

Fractile	F100 F9		95 F90 F7		F50	Mean/Std. Dev.	F25	F15	F10	F05	F02	F01	F00
Oil Recovery Factor (bbl/acre-foot)	89	212	247	319	424	465/209	564	657	728	848	1008	1130	1516
Gas Recovery Factor (Mcfg/acre-foot)	279	578	657	812	1029	1093/399	1304	1480	1613	13 1832 2114 2327		2584	
Gas Oil Ratio (Sol'n Gas)(cf/bbl)	56	162	195	267	376	426/220	531	638	723	871	1073	1100	1110
Condensate Yield ((bbl/Mmcfg)	1	14	17	21	25	25/7	29	32	34	35	37	39	50
Pool Size Distribution Statistics from POOLS (	):	$\mu$ (mu)= 11.439 $\sigma^2$ (sigma squared)= 1.628					Random N	lumber Ge	nerator Sec	ed= 297,150	)		

BOE Conversion Factor (cf/bbl)	5620	Probability Any Pool Contains Both Oil and Free Gas (Gas Cap)	0.1
Probability Any Pool is 100% Oil	0.1	Fraction of Pool Volume Gas-Bearing in Oil Pools with Gas Cap	0.9
Probability Any Pool is 100% Gas	0.8		

**Table 3**. Input data for North Aleutian basin play 1, 2006 assessment.

<sup>\*\*</sup> output from @RISK after aggregation with fill fraction

# Risk Analysis Form - 2006 National Assessment Assessment Province: Assessor(s): K.W. Sherwood, D. Comer, J. Larson North Aleutian Basin OCS Planning Area Play Number, Name: Miocene) AAAAA HAB Date: 1-Jan-05

For each component, a quantitative probability of success (i.e., between zero and one, where zero indicates no confidence and one indicates absolute certainty) based on consideration of the qualitative assessment of ALL elements within the component was assigned. This is the assessment of the probability that the minimum geologic parameter assumptions have been met or exceeded.

Presence of a Quality, Effective, Mature Source Rock Probability of efficient source rock in terms of the existence of sufficient volume of mature source rock of adequate quality located in the drainage area of the reservoirs.  Effective Expulsion and Migration Probability of effective expulsion and migration of hydrocarbons from the source rock to the reservoirs.  Preservation Probability of effective retention of hydrocarbons in the prospects after accumulation.  Servoir component (2a * 2b)  Presence of reservoir facies Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality Probability of effectiveness of the reservoir, with respect to minimum effective porosity, and	1 1a 1b 1c 2	0.9000 0.90 1.00 1.00	0.5200 0.65 0.80 1.00
Probability of efficient source rock in terms of the existence of sufficient volume of mature source rock of adequate quality located in the drainage area of the reservoirs.  Effective Expulsion and Migration  Probability of effective expulsion and migration of hydrocarbons from the source rock to the reservoirs.  Preservation  Probability of effective retention of hydrocarbons in the prospects after accumulation.  Servoir component (2a * 2b)  Presence of reservoir facies  Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	1b 1c 2	1.00	0.80
rock of adequate quality located in the drainage area of the reservoirs.  Effective Expulsion and Migration Probability of effective expulsion and migration of hydrocarbons from the source rock to the reservoirs.  Preservation Probability of effective retention of hydrocarbons in the prospects after accumulation.  Servoir component (2a * 2b)  Presence of reservoir facies Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	1b 1c 2	1.00	0.80
Probability of effective expulsion and migration of hydrocarbons from the source rock to the reservoirs.  Preservation Probability of effective retention of hydrocarbons in the prospects after accumulation.  Servoir component (2a * 2b)  Presence of reservoir facies Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	1c 2	1.00	1.00
reservoirs.  Preservation Probability of effective retention of hydrocarbons in the prospects after accumulation.  servoir component (2a * 2b)  Presence of reservoir facies Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	1c 2	1.00	1.00
Probability of effective retention of hydrocarbons in the prospects after accumulation.  servoir component (2a * 2b)  Presence of reservoir facies  Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	2		1
Presence of reservoir facies  Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	2		1
Presence of reservoir facies Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality		1.0000	1
Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	2a		1.0000
Probability of presence of reservoir facies with a minimum net thickness and net/gross ratio (as specified in the resource assessment).  Reservoir quality	2a		
. Reservoir quality		1.00	1.00
Probability of effectiveness of the reservoir, with respect to minimum effective porosity, and			
permeability (as specified in the resource assessment).	2b	1.00	1.00
ap component (3a * 3b)	3	0.8000	0.5000
Presence of trap			
Probability of presence of the trap with a minimum rock volume (as specified in the resource assessment).	3a	1.00	1.00
. Effective seal mechanism			
Probability of effective seal mechanism for the trap.	3b	0.80	0.50
(1 * 2 * 3) Product of All Subjective Play Chance Factors		0.7200	
ge Conditional Prospect Chance <sup>1</sup>			0.2600
			0.2000
<sup>1</sup> Assumes that the Play exists (where all play chance factors = 1.0)	3 of Guid	de	
ration Chance		0.	1872
(Product of Overall Play Chance and Average Conditional Prospect Chance)			
nents: See guidance document for explanation of the Risk Analysis Form			
	Play Chance (Marginal Probability of hydrocarbons, MPhc)   (1 * 2 * 3) Product of All Subjective Play Chance Factors   Quantification	Play Chance (Marginal Probability of hydrocarbons, MPhc)   (1 * 2 * 3) Product of All Subjective Play Chance Factors    Quantification of the Prospect Chance   (1 * 2 * 3) Product of All Subjective Conditional Prospect Chance Factors   Assumes that the Play exists (where all play chance factors = 1.0)   Must be consistent with play chance and prospect distribution See discussion on Page 3 of Guident Chance   (Product of Overall Play Chance and Average Conditional Prospect Chance)	Play Chance (Marginal Probability of hydrocarbons, MPhc)   (1 * 2 * 3) Product of All Subjective Play Chance Factors   0.7200     Quantification of All Subjective Conditional Prospect Chance Factors   (1 * 2 * 3) Product of All Subjective Conditional Prospect Chance Factors   4 Assumes that the Play exists (where all play chance factors = 1.0)   Must be consistent with play chance and prospect distribution See discussion on Page 3 of Guide   (Product of Overall Play Chance and Average Conditional Prospect Chance)   0.

 Table 4. Risk model for North Aleutian basin play 1, 2006 assessment.

# GRASP - Geologic and Economic Resource Assessment Model - PSUM Module Results

Minerals Management Service - Alaska OCS Region GRASP Model Version: 8.29.2005)

Computes the Geologic Resource Potential of the Play

Play UAI: AAAAAHAB Play No.

World World Resources Level Level Country Level UNITED **STATES** OF **AMERICA** MMS ALASKA **REGION** 

Level Region Basin Level **NORTH ALEUTIAN BASIN** 

Play 1 Bear Lake/Stepovak Level Play Geologist Sherwood Comer (Miocene/Oligocene) Larson

Remarks 2005 Assessment

Run Date & Time: 19-Sep-05 Time 14:07:33 Date

**Summary of Play Potential** 

Product	MEAN	Standard Deviation
BOE (Mboe)	1,400,300	1,315,300
Oil (Mbo)	270,650	543,910
Condensate (Mbc)	135,670	131,380
Free (Gas Cap & Nonassociated) Gas (Mmcfg)	5,473,000	5,179,500
Solution Gas (Mmcfg)	113,400	253,300

10000 (Number of Trials in Sample)

0.7197 (MPhc [Probability] of First Occurrence of Non-Zero Resource)

Windowing Feature: used

**Empirical Probability Distributions of the Products** 

Greater Than Percentage	BOE (Mboe)	Oil (Mbo)	Condensate (Mbc)	Free (Gas Cap & Nonassociated) Gas (Mmcfg)	Solution Gas (Mmcfg)
100	0	0	0	0	0
99.99	0	0	0	0	0
99	0	0	0	0	0
95	0	0	0	0	0
90	0	0	0	0	0
85	0	0	0	0	0
80	0	0	0	0	0
75	0	0	0	0	0
70	428,920	42,337	47,443	1,885,700	20,217
65	743,300	78,470	79,426	3,255,800	34,234
60	924,590	138,610	96,260	3,820,400	55,817
55	1,097,800	129,240	116,560	4,733,800	54,424
50	1,257,300	173,560	130,540	5,288,300	68,775
45	1,413,900	223,890	145,030	5,780,900	92,082
40	1,572,100	178,060	168,570	6,803,600	83,602
35	1,741,000	320,800	169,140	6,899,000	131,980
30	1,938,000	338,620	192,430	7,778,300	128,660
25	2,152,100	385,320	211,850	8,572,800	165,660
20	2,392,100	454,090	232,130	9,390,100	196,910
15	2,685,800	537,920	259,840	10,398,000	213,010
10	3,112,300	772,520	281,990	11,246,000	318,880
8	3,334,300	684,590	309,860	12,880,000	270,200
6	3,582,000	879,440	319,690	13,042,000	349,760
5	3,749,400	827,680	348,590	14,131,000	329,810
4	3,953,900	910,010	363,860	14,702,000	359,430
2	4,668,800	1,402,400	384,240	15,555,000	643,150
1	5,437,300	1,558,300	457,940	18,535,000	691,720
0.1	8,560,300	4,002,000	583,870	20,923,000	1,412,700
0.01	9,881,800	6,417,300	368,060	13,617,000	3,785,600
0.001	12,563,000	10,221,000	177,420	6,752,700	5,413,500

**Table 5**. Assessment results by commodity for North Aleutian basin play 1, 2006 assessment.

	Classifica	tion and Size	!	Poo	l Count Statis	stics		Pool	Types Co	unt	Mixed Po	ool Range	Oil Poo	Oil Pool Range		Gas Pool Range		ol Range			Pool Resource :		
Class	Min (MMBOE)	Max (MMBOE)	Pool Count	Percentage	Trial Average	Trials w/Pool Avg		Mixed Pool	Oil Pool	Gas Pool	Min	Max	Min	Max	Min	Max	Min	Max		Min	Max	Total Resource	Average Resource
1	0.0312	0.0625	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 1	0.000000	0.000000	0.000000	0.00000
2	0.0625	0.125	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1 [	0.000000	0.000000	0.000000	0.00000
3	0.125	0.25	4	0.005479	0.0004	0.000556	1	0	0	4	0	0	0	0	1	1	1	1	1 i	0.191108	0.222781	0.844078	211.01947
4	0.25	0.5	8	0.010958	0.0008	0.001111		0	0	8	0	0	0	0	1	1	1	1	] [	0.315271	0.435919	3.077366	384.67076
5	0.5	1	53	0.072596	0.0053	0.007363		4	5	44	1	1	1	1	1	1	1	1	] [	0.503212	0.981680	41.302323	779.28912
6	1	2	207	0.283534	0.0207	0.028758		11	5	191	1	1	1	1	1	2	1	2	] [	1.045681	1.999298	322.251529	1.55677
7	2	4	604	0.827318	0.0604	0.083912		49	24	531	1	1	1	1	1	3	1	3	] [	2.004109	3.993643	1833.323000	3.03530
8	4	8	1630	2.232663	0.163	0.226452		146	73	1411	1	2	1	1	1	3	1	4	] [	4.007199	7.999241	9832.676000	6.03231
9	8	16	3893	5.332366	0.3893	0.540845		378	173	3342	1	2	1	2	1	5	1	5	] [	8.001595	15.993918	47019.755000	12.07802
10	16	32	7896	10.815401	0.7896	1.096971		741	442	6713	1	3	1	2	1	8	1	9	] [	16.008270	31.999954	188860.439000	23.91849
11	32	64	12596	17.253139	1.2596			1231	754	10611	1	3	1	3	1	9	1	10	] [	32.002188	63.999774	595032.012000	47.23976
12	64	128	15882	21.754078	1.5882	2.206446		1584			1	3	1	3	1	9	1	10	] [	64.000789	127.999197	1470750.000000	92.60480
13	128	256	14566	19.951511	1.4566	2.023618		1497	1508	11561	1	3	1	4	1	8	1	9	] [	128.006532	255.984369	2652561.000000	182.10632
14	256	512	9798	13.42063	0.9798			1094	1476	7228	1	3	1	4	1	7	1	8	] [	256.039420	511.993714	3493126.000000	356.51422
15	512	1024	4321	5.918611	0.4321	0.600306		434	902	2985	1	2	1	3	1	5	1	6	] [	512.011330	1023.691000	2989632.000000	691.88427
16	1024	2048	1282	1.755996	0.1282	0.178105		101	448	733	1	1	1	2	1	3	1	4	] [	1024.537000	2047.337000	1756141.000000	1.36984
17	2048	4096	238	0.325996	0.0238	0.033065		23	98	117	1	2	1	1	1	2	1	2	] [	2050.438000	4008.320000	639316.445000	2.68620
18	4096	8192	28		0.0028	0.00389		1	20	7	1	1	1	1	1	1	1	1	] [	4125.396000	6655.965000	147362.867000	5.26295
19	8192	16384	1	0.00137	0.0001	0.000139		0	1	0	0	0	1	1	0	0	1	1	1 1	11537.666000		11537.666000	11.53766
20	16384	32768	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	] [	0.000000	0.000000	0.000000	0.00000
21	32768	65536	0	0	0	0	]	0	0	0	0	0	0	0	0	0	0	0	] [	0.000000	0.000000	0.000000	0.00000
22	65536	131072	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	ı [	0.000000	0.000000	0.000000	0.00000
23	131072	262144	0	0	0	0	]	0	0	0	0	0	0	0	0	0	0	0	] [	0.000000	0.000000	0.000000	0.00000
24	262144	524288	0	0	0	0		0	0	0	0	0	0	0	0	0	0		] [	0.000000	0.000000	0.000000	0.00000
25	524288	1048576	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0		0.000000	0.000000	0.000000	0.00000
Not Clas			0	0	0	0	Below Class	0	0	0									Below Class	0.000000	0.000000	0.000000	0.00000
		Totals	73007	100.000008	7.3007	10.142679	Above Class	0	0	0									Above Class	0.000000	0.000000	0.000000	0.00000
Numbe	r of Pools r r of Pools b r of Trials v	not Classifi	ed: 0 s 1: 0	100.000008	1.3007	10.142679	Above Class	U	U			Max refe					nt size cl	ass that		Min and Max re		esources of the releva	

Table 6. Statistics for simulation pools created in computer sampling run for North Aleutian basin play 1, 2006 assessment.

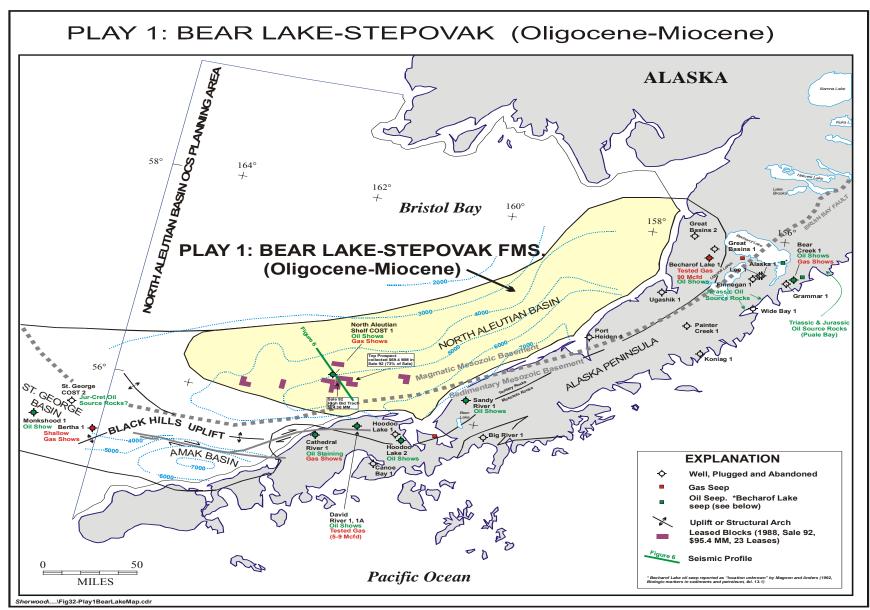


Figure 1. Map location of North Aleutian basin play 1, 2006 assessment.